BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Consultancy Services for preparation of **Surveys, Designs, Drawing, Estimate Preparation etc.,**(Detailed Project Report) for the work of balance works in Hoysala Playground and Construction of Samudhaya Bhavan in judicial layout in Ward No:04, Yelahanka

								Estimate Cost Rs.	19500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Supply and fixing of single skin kalzip roofing systems of 65/400, 0.9mm thick Aluminium standing seam roof sheets. The sheets comprise of Profiled sheeting of Aluminium self-supported standing seam roof system manufactured from Aluminium alloy AA 3004, minimum material thickness of 0.9mm and PVDF finishing RAL 9006 on the exposed surface with ST clips and necessary accessories. Structure: (i) Supplying, cutting, bending and fabricating hot rolled plates, sag rods, brackings and connection bolts to form a column, truss with base plates and purlins. (ii) Erection of the above truss work structure at required height. (iii) Providing and applying one coat of red oxide primer and two coats of synthetic enamel paint. The scope of work includes a) Design, Engineering, Fabrication and erection of steel structure, roof sheeting and facade system. b) Supply and installation of flashing, capping, screws and all other necessary accessories	Sqm							
			1	45.00	7.40		333.00		
						Sqm	333.00	15025.00	5003325.00
2	Removing and resetting footpath slab **(P.no.256,I no.37.56 of P&IWTD SR 2018/19)**	Sqm							
	Inside drains		1	550.00		1.20	660.00		
						Sqm	660.00	212.76	140422.00
	Basic Rate	197.00							
	Area Weightage @ 8%	15.76							
	Total	212.76							
3	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. **(P No. 143/ Item No. 19.1/PWD SR 2018-19)**	Cum							
	For stadium sump		1	4.00	3.00	3.50	42.00		
	Desilting for Inside stadium drains		1	550.00	0.90	0.45	222.75		
						Cum	264.75	140.40	37170.90
	Basic Rate	130.00							
	Area Weightage 8%	10.40							
	Total	140.40							
4	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm							
			1	165.00		1.20	198.00		
	For Missing top cover slabs (30%)					Sqm	198.00	2337.00	462726
	Basic Rate	2337.00							
5	b)Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.**(P.No.14, I.No. 4.10 of PWD SR 2018-19)**	Cum							
	For columns		11	0.45	0.45	1.00	2.23		
						Cum	2.23	6718.68	14965.86
	Basic Rate	6221.00							
	Area Weightage 8%	497.68							
	Total	6718.68							
6	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**(P.No.18, I.No. 4.46.2 of PWD SR 2018-19)**	Tonn							
			Qty	Kg/m3			Total kgs		
	For columns		2.23	120.00			267.30		
	For Stadium Sump		1.8	120.00			216.00		
							483.30		
						Tonn	0.48	76643.28	37041.70
	Basic Rate	70966.00							
	Area Weightage 8%	5677.28							
	Total	76643.28							
7	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square rectangular polygon in plan including cost of all materials, labour complete as per specifications.**(P.No.16, I.No.4.32of PWD SR 2018-19)**	Sqm							
	Columns		11	1.80		1.2	23.76		
						Sqm	23.76	492.48	11701.32
	Basic Rate	456.00							
	Area Weightage 8%	36.48							
	Total	492.48							
8	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2 **(P.No.16, I.No.4.29 of PWD SR 2018-19)**	Sqm							
	For stadium sump Slab		1	3.46	2.46				

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	All round Side Shuttering		1	11.84		0.15	1.78		
						Sqm	10.29	432.00	4444.24
	Basic Rate	400.00							
	Area Weightage 8%	32.00							
	Total	432.00							
9	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. zand lift upto 1.5m. Including cost of all labour complete as per specifications allow 60% of rate considered under item KSRB 2.3 (P.No.7, I.No.2.11 of PWD SR 2018-19)	Cum							
	Backfill for Gallery portion		1	50.00	1.10	0.30	15.00		
	Backfill for Basket ball stadium		1	44.00	21.00	0.30	13.20		
	Parking area for front portion		1	25.00	2.00	0.30	7.50		
	For stadium sump		1	4.00	3.00	3.50	14.00		
						Cum	49.70	130.68	6494.80
	Basic Rate	121.00							
	Area Weightage 8%	9.68							
	Total	130.68							
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PWD SR 2018-19)	Cum							
	Parking area		1	61.00	1.90	0.30	34.77		
	For gallery portion		1	50.00	1.10	0.30	16.50		
	For Basket ball court		1	44.00	21.00	0.25	231.00		
	Parking area for front portion		1	25.00	2.00	0.30	15.00		
	For stadium sump		1	4.00	3.00	0.15	1.80		
						Cum	299.07	5855.76	1751282.14
	Basic Rate	5422.00							
	Area Weightage 8%	433.76							
	Total	5855.76							
11	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, with superplastisiser @3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(P.No.14, I.No.4.11 of PWD SR 2018-19)	Cum							
	For stadium sump Slab		1	4.00	3.00	0.15	1.80		
						Cum	1.80	6111.72	11001.10
	Basic Rate	5659.00							
	Area Weightage 8%	452.72							
	Total	6111.72							
12	KSRB 14.6-2 :Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No. 103, I.No. 14.6 of CSR 2018-19)	Sqm							
	For Drain side		1	50.00	1.50		75.00		
						Sqm	75.00	1198.80	89910
	Basic Rate	1110.00							
	Area Weightage 8%	88.80							
	Total	1198.80							
13	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.27, I.No.5.26.1 of PWD SR 2018-19)	Sqm							
	wall (inside gallery portion)		2	2.25		3.00	13.50		
	For gallery portion area wall		1	60.00		3.00	180.00		
						Sqm	193.50	1038.96	201038.76
	Basic Rate	962.00							
	Area Weightage 8%	76.96							
	Total	1038.96							
14	KSRB 6.1: Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqm with cement mortar 1:8 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (P.No.29, I.No.6.2 of PWD SR 2018-19)	Cum							
	For stadium sump		2	3.46	0.23	3.00	4.77		
			2	2.46	0.23	3.00	14.76		
						Cum	19.53	5527.44	107977.43
	Basic Rate	5118.00							
	Area Weightage 8%	409.44							
	Total	5527.44							
15	KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 (P.No.75, I.No.11.44 of PWD SR 2018-19)	Nos							
	For sumps		10				10		
						Nos	10	298.08	2980.80
	Basic Rate	276.00							

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Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage 8%	22.08							
	Total	298.08							
16	KSRB 15.10.2 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.**(P.No.115, I.No.15.9 of PWD SR 2018-19)**	Sqm							
	Columns		16	1.80		2.50	72.00		
	Columns		46	1.80		1.00	82.80		
	Partition wall(triangle)		4		4.50	2.40	21.60		
	For gallery portion area wall		4	48.00		2.40	460.80		
	Partition wall		4	3.00		2.40	28.80		
	for Existing room (front gate)						0.00		
	Front wall		2	6.50		3.10	40.30		
	Side wall		2	3.50		3.10	21.70		
	For stadium sump walls		1	10.00		3.00	30.00		
	Deductions						0.00		
	D		-2	1.20		2.10	-5.04		
	W		-1	1.50		0.60	-0.90		
	W1		-2	1.50		1.50	-4.50		
	V		-3	0.60		0.60	-1.08		
						Sqm	746.48	227.88	170107.8624
	Basic Rate	211.00							
	Area Weightage 8%	16.88							
	Total	227.88							
17	KSRB 15.10.1 : Providing **white washing** to new wall surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.**(P.No.117, I.No.15.38 of PWD SR 2018-19)**	Sqm							
	Columns		16	1.50		2.50	60.00		
	Columns		46	1.50		1.00	138.00		
	For gallery portion area wall		2	48.00		2.40	230.40		
	Partition wall		4	3.00		2.40	28.80		
	for Existing room (front gate)								
	Front wall		2	6.50		3.10	40.30		
	Side wall		2	3.50		3.10	21.70		
	Deductions								
	D		-2	1.20		2.10	-5.04		
	W		-1	1.50		0.60	-0.90		
	W1		-2	1.50		1.50	-4.50		
	V		-3	0.60		0.60	-1.08		
						Sqm	507.68	12.96	6579.53
	Basic Rate	12.00							
	Area Weightage 8%	0.96							
	Total	12.96							
18	KSRB 15-15.3 : Providing and applying painting in one coat with **plastic emulsion paint** of approved brand and manufacture on wall surface to give an even approved shade after throughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.**(P.No.120, I.No.15.52.1 of PWD SR 2018-19)**	Sqm							
	Columns		16.00	1.50		2.50	60.00		
	Columns		46.00	1.50		1.00	138.00		
	Columns		11.00	0.30		1.00	6.60		
	Partition wall(triangle)		2.00		4.50	2.40	10.80		
	For gallery portion area wall		2.00	48.00		2.40	230.40		
	Partition wall		4.00	3.00		2.40	28.80		
	For Existing room (front gate)								
	Front wall		2.00	6.50		3.10	40.30		
	Side wall		2.00	3.50		3.10	21.70		
	GALLARY BUILDING DOWN SIDE								
	side walls		2.00	9.00		3.00	54.00		
	center wall		1.00	13.50		4.50	60.75		
	GALLRY SITTING								
	Backside (Right &left side wall)		2.00	11.50	3.00		69.00		
	Middle wall		1.00	10.00	2.00		20.00		
	Partition wall(triangle)		4.00	7.88			31.50		
	partition wall (steped type)		2.00	5.00			10.00		
	Columns in Gallary		16.00	1.50		2.50	60.00		
	Columns		46.00	1.50		1.00	69.00		
	Entrance building column		6.00	0.30		5.00	57.09		
	Entrance building column		6.00	0.30		3.00	34.48		
	Deductions								
	D		-1.00	2.00		2.10	-4.20		
	D1		-2.00	1.20		2.10	-5.04		
	W		-11.00	1.50		1.50	-24.75		
	W1		-2.00	1.90		1.50	-5.70		
	V		-3.00	0.60		0.60	-1.08		
						Sqm	961.64	60.48	58160.13
	Basic Rate	56.00							
	Area Weightage 8%	4.48							
	Total	60.48							
19	KSRB 13-11.1 : Providing and placing on terrace, polyethylene **water storage tanks** with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity) Specification No. KBS 13.22 **(P.No.96, I.No.13.78 of PWD SR 2018-19)**	Nos							
	water tanks		2				2		
						Nos	2	7374.24	14748.48
	Basic Rate	6828.00							
	Area Weightage 8%	546.24							
	Total	7374.24							

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Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 7.19 :Providing and fixing M.S Grill work for windows and ventilators using M.S flats or M.S square rods or combination of M.S flat and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materail, fixtures, labour and HOM of machinery complete as per specification. Specification No.KBS 7.10 (P.No.34 Items No:7.9 of PWD SR 2018-19)	Kgs							
	Compound wall Back side								
	for Gallery building windows		1	110.00		2.00	220.00		
			2	1.90		1.50	5.70		
	22kgs/m2		10	1.50		1.50	22.50		
							248.20		
	Basic Rate	95.00				kgs	5212.20	102.60	534771.72
	Area Weightage 8%	7.60							
	Total	102.60							
21	Providing and fixing M.S.Grill over existing compound wall as per Chief Architect drawing No. 12586, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification. (P.No.44, I.No.7.36 of PWD SR 2018-19)	Sqm							
	Compound West & East side								
			1	250.00		0.60	150.00		
	Basic Rate	5369.00				Sqm	150.00	5798.52	869778.00
	Area Weightage 8%	429.52							
	Total	5798.52							
22	KSRB 9.4-4 : Providing WHITE Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33. **(P.No.53, I.No.9.13 of PWD SR 2018-19)**	Cum							
	4 Doors								
			8	2.10	0.10	0.10	0.17		
			8	1.00	0.10	0.10	0.08		
	Basic Rate	60548				Cum	0.25	65391.84	16217.17632
	Area Weightage 8%	4843.84							
	Total	65391.84							
23	KSRB 9-7.3 :Providing and fixing in position fully panelled Mathi/ Nandi wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (P.No.54, I.No.9.22 of PWD SR 2018-19)	Sqm							
	4 Doors								
			4	0.90		2.10	7.56		
	Basic Rate	3817				Sqm	7.56	4122.36	31165.0416
	Area Weightage 8%	305.36							
	Total	4122.36							
24	KSRB 15-17.3 : Applying priming coat over new wood surface and / or wood based surface after brushing with aluminium paint primer, water resistant including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.**(P.No.121, I.No.15.57 of PWD SR 2018-19)**	Sqm							
	4 Doors								
			8	0.90		2.10	15.12		
	Basic Rate	42				Sqm	15.12	45.36	685.8432
	Area Weightage 8%	3.36							
	Total	45.36							
25	KSRB 15-17.19: Providing and applying painting one coat (excluding priming coat) on previously painted wood surface and / or wood based surface with black japan paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, including cost of materials, labour, complete as per specifications.**(P.No.123, I.No.15.71 of PWD SR 2018-19)**	Sqm							
	4 Doors								
			8	0.90		2.10	15.12		
	Basic Rate	56.00				Sqm	15.12	60.48	914.4576
	Area Weightage 8%	4.48							
	Total	60.48							
26	KSRB 15-17.20: Applying additional one coat (excluding priming coat) on previously painted wood surface and / or wood based surface with black japan paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, including cost of materials, labour, complete as per specifications.**(P.No.123, I.No.15.72 of PWD SR 2018-19)**	Sqm							
	4 Doors								
			8	0.90		2.10	15.12		
	Basic Rate	50.00				Sqm	15.12	54.00	816.48
	Area Weightage 8%	4.00							
	Total	54.00							

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
27	Providing and fixing in position in cement concrete 1:3:6 Steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419kg/m both for outer and inner frames and central mullion section of size 25x46x3 mm, weighing 1.238kg/m all duly providing T section 19x19x3 mm weighing 0.839kg/m for glazing of windows, not more than 34 cms, C to C including providing and fixing 4mm. thick needed glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenoneed and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery complete as per specifications.**(P.No.34, I.No.7.8 of PWD SR 2018-19)**	**Sqm**							
	window								
	ventilators		1	1.50		1.20	1.80		
			3	0.60		0.60	1.08		
						Sqm	**2.88**	**3594.24**	**10351.4112**
	Basic Rate	**3328**							
	Area Weightage 8%	**266.24**							
	Total	**3594.24**							
	Providing and fixing 12.5mm to 25 mm expanded metal work of 14 gauge with Mathi or Nandi wood patties of 50 mm x 12 mm size, including two coats approved paint etc., complete. (Including cost of screws). with weld mesh 75 mm X 25 mm 6G X 10G.**(P.No.270, I.No.37.55 of PWD SR 2018-19)**	**Sqm**							
	Gallry front door(existing frame broken glass)								
	Ventilators		4	0.60		1.00	2.40		
	Windows		10	1.50		0.60	9.00		
			20	1.50		1.50	45.00		
			1	110.00		3.00	330.00		
						Sqm	**386.40**	**1601.64**	**618873.696**
	Basic Rate	**1483.00**							
	Area Weightage 8%	**118.64**							
	Total	**1601.64**							
28	Providing and fixing 4mm thick glass panes to steel windows including T.W. beading of 10 mm thick and 2 coats of approved paints **(P.No.267, I.No.37.16 of PWD SR 2018-19)**	**Sqm**							
	Gallry front door (Existing frame broken glass)								
	Ventilators		4	0.60		1.00	2.40		
	Windows		10	1.50		0.60	9.00		
			20	1.50		1.50	45.00		
						Sqm	**56.40**	**855.36**	**48242.304**
	Basic Rate	**792**							
	Area Weightage 8%	**63.36**							
	Total	**855.36**							
29	KSRB 15-17.20: Applying additional one coat (excluding priming coat) on previously painted wood surface and / or wood based surface with black japan paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, including cost of materials, labour, complete as per specifications.**(P.No.123, I.No.15.72 of PWD SR 2018-19)**	**Sqm**							
	Front gate								
			2	2.00		3.00	12.00		
						Sqm	**12.00**	**2642.76**	**31713.12**
	Basic Rate	**2447**							
	Area Weightage 8%	**195.76**							
	Total	**2642.76**							
30	Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. **(P.No. 110, I.No. 14.52 of PWD SR 2018-19)**	**Sqm**							
	Damaged flooing Gallery area								
	Front gate Columns		25	2.20	1.20		66.00		
			4	0.50	0.50		1.00		
						Sqm	**67.00**	**3807.00**	**255069.00**
	Basic Rate	**3525.00**							
	Area Weightage 8%	**282.00**							
	Total	**3807.00**							
31	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **(P.No. 266, I.No. 37.2 of**	**Mtr**							
	For Basket ball court								
			30	4.00			120.00		
						Mtr	**120.00**	**927.72**	**111326.40**
	Basic Rate	**859.00**							
	Area Weightage 8%	**68.72**							
	Total	**927.72**							
32	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **(P.No. 266, I.No. 37.3 of PWD SR 2018-19)**	**Sqm**							
	For Basket ball court								
			1	60.00		3.00	180.00		
						Sqm	**180.00**	**772.20**	**138996.00**
	Basic Rate	**715.00**							
	Area Weightage 8%	**57.20**							
	Total	**772.20**							
33	**Providing & Fixing Name board (Lump Sum)**	**Nos**					3		
34	**Providing Dust Bins (MR)**	**Nos**				**Nos**	**3**	**166667**	**500000.00**
			20				25		
						Nos		**5000.00**	**125000.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Electrical Works								
35	LED Street light/Flood Light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.150 Watts SR No:27/4.36.3	Nos							
			20				20		
						Nos	20	43000.00	860000.00
36	LED Street light/Flood Light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.**320 Watts SR No:27/4.36.4**	Nos							
	Total		70				70		
						Nos	70	54000.00	3780000.00
37	Supplying of LED Floodlight/High Baylight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 150W **SR**	Nos							
			40				40		
						Nos	40	23577.00	943080.00
38	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition LED modular down light 2'x2'-36 watts **SR No:26/4.33.2**	Nos							
			4				4		
						Nos	4	8242.00	32968.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
39	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition LED modular down light 2'x2'-55 watts **SR No:26/4.33.3**	Nos							
			2				2		
						Nos	2	9373.00	18746.00
40	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 10Mt (5Mt Hb,165.1mm dia 4.85mm thick x3M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 47 **SR No:34/5.13.1.2**	Nos							
			4				4		
						Nos	4	19000.00	76000.00
41	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm **SR No:49/6.39.1**	Nos							
			150				150		
						Nos	150	263.00	39450.00
42	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG **SR No:49/6.40.2**	Sqcm							
							150000.0		
	Total					Sqcms	150000.0	0.33	49500.00
43	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE100Amps 25kA.**SR No:46/6.13.B.6**	Nos							
			2				2		
						Nos	2	5809.00	11618.00
44	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.5-32Amps SP **SR No:47/6.16.1**	Nos							
			20				20		
	Total					Nos	20	418.00	8360.00
45	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm **SR No:55/7.4.5**	Mtrs							
			1100.00				1100.00		
						Mtrs	1100.00	165.50	182050.00
46	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. **3.5 core 35 sqmm SR No:55/7.4.6**								
			250.00				250.00		
						Mtrs	250.00	204.00	51000.00
47	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 6 sqmm to 16 sqmm **SR No:61/7.8.1**	Mtrs							
			1100.00				1100.00		
	Total					Mtrs	1100.00	10.80	11880.00
48	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 25 sqmm to 75 sqmm **SR No:61/7.8.2**	Mtrs							
			250.00				250.00		
						Mtrs	250.00	16.20	4050.00
49	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary) **SR No:61/7.9.1**	Mtrs							
			200.00				200.00		
						Mtrs	200.00	78.00	15600.00
50	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 1)1 sqmm.**SR No:8/2.6.1**	Mtrs							

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			100.00				100.00		
51	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 1.5 sqmm **SR No:9/2.6.2**	Mtrs				Mtrs	100.00	10.75	1075.00
			600.00				600.00		
52	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 2.5 sqmm **SR No:9/2.6.3**	Mtrs				Mtrs	600.00	15.90	9540.00
			300.00				300.00		
53	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B..4 sqmm **SR No:9/2.6.4**	Mtrs				Mtrs	300.00	24.90	7470.00
			200.00				200.00		
54	Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF	Mtrs				Mtrs	200.00	36.30	7260.00
			300.00				300.00		
55	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm **SR No:62/7.1**	Mtrs				Mtrs	300.00	54.00	16200.00
			30.00				30.00		
56	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm **SR No:58/6.41.1**	Mtrs				Mtrs	30.00	345.00	10350.00
			75.00				75.00		
57	**P&S Submersible Single Phase Pumpset**					Mtrs	75.00	2178.00	163350.00
	Providing and Supplying Submersible single Phase 2.0 HP /1.5 KW 30 Stage Capacity Company for ATALANTA / SUGUNA / CRI / KIRLOSKAR / OTHER EQUIVALENT PUMPS.(KPWD SR 2018-19, P.No:XLIII, Sl.No.:17)	Nos							
	Stand by 1 Nos		2				2		
	Basic Rate	20590				Nos	2	22237.2	44474.40
	Area Weightage 8%	1647.2							
	Total	22237.2							
58	**Electrification & Automatic On/Off Sensor system**						2		
						Nos	2	25000.00	50000.00
								Sub-Total (Civil)	10963272.71
								Sub-Total (Electrical)	6856747.40
								12% GST	1315592.73
								DPR & PMC charges 2%	356400.40
								Unforceen	7987.24
								Grand Total	19500000.00

Asst. Engineer

Executive Engineer
Yelahanka Zone
Bruhat Bangalore Mahanagara Palike

Asst. Exe.Engineer
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

19/9/19

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Transheight Consultants Pvt. Ltd. Bangalore

Technical Sanction
Accorded For R.S 195.00 Rerecheck only
Head of A/C. P3590
CER NO : 85 Dt: 20.09.2019

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